

Notice of Allowability

Application No.

10/014,177

Examiner

Vitali Korobov

Applicant(s)

RAJARAJAN ET AL.

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an amendment filed on 11/10/2006.
2. ☒ The allowed claim(s) is/are 1-4, 6-20 and 26, renumbered as 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

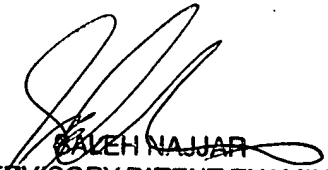
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


SALEH NAJJAR
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to the Applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Tadd Wilson (Reg. No. 54,544) on January 22, 2007.

3. The application has been amended as follows:

IN THE SPECIFICATION

Amend the the paragraphs beginning on page 46, line 5, and ending on page 47, line 5, with the following amended paragraphs:

An example XML schema to define a search is shown in Table 7.

Table 7: Sample XML Schema to Define a Search

```
<OBJECTTYPE>
  <ID>4D36E96A-E325-11CE-BFC1-08002BE10318 </ID>
  <NAME> Computer </NAME>
  <QUICKSEARCHHANDLER>
    "http://MMP/Search/ADS_Search.ASP"
  </QUICKSEARCHHANDLER>
  <ADVANCEDSEARCHHANDLER>
  </ADVANCEDSEARCHHANDLER>
  <ATTRIBUTES>
    <ATTRIBUTE>
      <ISQUICKSEARCHABLE>
        True
      </ISQUICKSEARCHABLE>
      <ISDEFAULT> True </ISDEFAULT>
      <ID> OF-40-5012 </ID>
      <NAME> Office </NAME>
      <DATATYPE> String </DATATYPE>
      <ADVANCEDQUERYDISPLAYHINTS>
      </ADVANCEDQUERYDISPLAYHINTS>
      <RESULTSDISPLAYHINTS>
        <SHOW>
        </SHOW>
```

Art Unit: 2155

```
<ORDER>
</ORDER>
<WIDTH>
</WIDTH>
</RESULTSDISPLAYHINTS>
</ATTRIBUTES>
</OBJECTTYPE>
```

The above example defines part of an object having an attribute named "Office" that is to be exposed to the search system. That is, when an end user of the management system 304 wishes to search for an object of this type they can do so using the office attribute.

In another embodiment, the line "http://MMP/Search/ADS_Search.ASP" is replaced with "http://MMP/Search/ADS_Search.aspx" such that the example defines part of an object including a pointer to the search engine that is to be used to search for objects of the above type. In this case the pointer is now "http://MMP/Search/ADS_Search."

IN THE CLAIMS

1. (Currently Amended) A distributed system for managing two or more a plurality of resources, the distributed system comprising:

one or more objects, the one or more objects comprising information;

two or more resources, wherein each resource is operable to manage the information of one or more objects, the two or more resources comprising one or more resources of differing type;

two or more datastores, each datastore in electrical communication with one of the resources, each datastore storing objects associated with an associated resource;

a management module in communication with the two or more plurality of resources; the management module operable to receive capable of receiving a request to access information from related to one or more of the plurality of resources, the plurality of resources comprising one or more resources of differing type, the management module operable to access the information from the one or more resources;[[and]]

wherein two or more resources, of differing type, manage the information of a same object; [[and]]

wherein the information relates to one or more clients ~~entities~~ that use the two or more resources[.];

wherein each object comprises:

one or more attributes, each attribute having a data field and a value;

one or more associated tasks that may be performed on the object; and

wherein the management module accesses attribute and task information from the associated resources in response to a request to access information.

2. (Previously Presented) A system as defined in claim 1 wherein the management module comprises a configuration manager for receiving information from two or more a plurality of resources and a configuration store for storing predetermined information for the two or more plurality of resources.

3. (Previously Presented) A system as defined in claim 2 wherein the configuration manager installs resources such that the management module can modify configuration information for the two or more plurality of resources.

4. (Previously Presented) A system as defined in claim 3 wherein each of the plurality of the resources provides information to the configuration manager in XML format.

5. (Cancelled)

6. (Original) A system as defined in claim 5 1 wherein the attribute information for an object is provided by more than one resource.

7. (Original) A system as defined in claim 6 wherein each object is defined by a property sheet and the attribute information is a property page in the property sheet.

8. (Original) A system as defined in claim 6 wherein the task information for an object is provided by more than one resource.

9. (Original) A system as defined in claim 6 wherein each object is defined by a property sheet and the task information is in a property page associated with the property sheet.

10. (Previously Presented) A system as defined in claim 6 further comprising:

a configuration manager for receiving and storing information from two or more a plurality of resources relating to managed objects; and

a property sheet manager for receiving and storing property sheet information related to managed objects.

11. (Previously Presented) A system as defined in claim 1 further comprising:

a configuration manager for receiving information from two or more a plurality of resources, each resource having associated objects;

a configuration store for storing predetermined information for the two or more plurality of resources; and

a search manager adapted to receive predetermined search information from the two or more a plurality of resources;

a search data store adapted to store predetermined search information for the two or more various resources; and

wherein the search manager searches the two or more plurality of resources in response to a single search request.

12. (Previously Presented) A system as defined in claim 1 wherein the management layer further comprises:

a configuration manager for receiving information from two or more a plurality of resources, each resource having associated objects;

a configuration store for storing predetermined information for the two or more plurality of resources; and

a task manager, wherein the task manager receives task information from the configuration manager related to tasks that may be completed in managing the two or more plurality of resources.

13. (Currently Amended) A method of managing a two or more plurality of resources, each resource having one or more managed objects, wherein each of the

Art Unit: 2155

one or more managed objects has associated attribute and task information, the method comprising:

receiving information from a first resource related to attribute information or one or more associated tasks that may be performed on the first managed object for a first managed object;

storing the information received from the first resource with the first managed object;

receiving information from a second resource related to attribute information or one or more associated tasks that may be performed on the first managed object for the first managed object, wherein the second resource is a different type than the first resource;

separately storing the information received from the second resource with the information received from the first resource in association with the first managed object;

receiving a request to access information related to the first managed object;

[[and]]

upon receiving the request to access information related to the first managed object, accessing the first managed object; and

retrieving, from the accessed object, information stored by the first resource and separately stored by the second resource to access information related to the first managed object;[[.]]

wherein the attribute information of the accessed object includes a data field and a value;

wherein the retrieved information includes attribute information and task information from the first resource and second resource in response to a request to access information.

14. (Original) A method as defined in claim 13 wherein the information received from the first resource comprises a first property page and wherein the information received from the second resource comprises a second property page and wherein the method further comprises:

- creating a property sheet for the first managed object;
- associating the first property page with the property sheet; and
- associating the second property page with the property sheet.

15. (Previously Presented) A method as defined in claim 14 further comprising:

- receiving a search request from a client computer system; and
- searching two or more a plurality of resources in response to the single search request using information associated with the property sheet.

16. (Original) A method as defined in claim 15 further comprising the act of sharing search information between resources.

17. (Previously Presented) A method as defined in claim 14 further comprising:

- receiving a task request from a client computer system; and
- in response to the task request, requesting task completion from two or more a plurality of resources.

18. (Previously Presented) A method as defined in claim 17 wherein the act of requesting task completion from two or more a plurality of resources comprises:

- identifying two or more resources to configure in response to the task request;
- and
- performing the task by accessing the two or more resources identified to perform a task from a client's computer system.

19. (Original) A method as defined in claim 13 wherein the act of receiving information from the first and second resources is performed by a configuration manager and wherein the method further comprises:

- notifying a search manager that search information has been received.

20. (Original) A method as defined in claim 13 wherein the act of receiving information from the first and second resources is performed by a configuration manager and wherein the method further comprises:

- notifying a task manager that search information has been received.

21 - 23. (Cancelled)

24 - 25. (Cancelled)

26. (Previously Presented) The system of claim 1, wherein the two or more plurality of resources comprises one of printer, workstation, server, databases, security systems, email account, or user account.

REASONS FOR ALLOWANCE

4. Claims 1-4, 6-20 and 26 are allowable over the prior art of record.

Art Unit: 2155

This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104 (e). In this case, the substance of applicant's remarks in the Amendment filed on 11/10/06 with respect to the amended claim limitations and further amended claim limitations in the foregoing Examiner's Amendment point out the reason claims are patentable over the prior art of record. Thus, the reason for allowance is in all probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vitali Korobov whose telephone number is 571-272-7506. The examiner can normally be reached on Mon-Friday 8a.m. - 4:30p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571)272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Art Unit: 2155

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

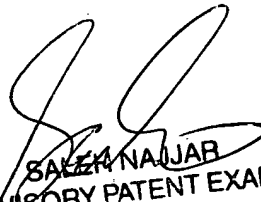
For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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Art Unit 2155

01/22/2007
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